

FIG 1A

SEQ ID NO: 1	PRMA_ECOLI	1	TTT	B1	B2	B3	TT	B4	50
SEQ ID NO: 2	HPMA_ECOLI	2	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 3	S.typhimurium	3	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 4	Yersinia	4	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 5	V.cholerae	5	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 6	Pseudo.putida	6	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 7	P.aeruginosa	7	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 8	Strep. fradiae	8	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 9	B.subtilis	9	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 10	Lacto.lactis	10	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 10	Strep.pneumoniae	10	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 1 (cont)	PRMA_ECOLI	1	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 2 (cont)	S.typhimurium	2	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 3 (cont)	Yersinia	3	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 4 (cont)	V.cholerae	4	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 5 (cont)	Pseudo.putida	5	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 6 (cont)	P.aeruginosa	6	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 7 (cont)	Strep. fradiae	7	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 8 (cont)	B.subtilis	8	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 9 (cont)	Lacto.lactis	9	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 10 (cont)	Strep.pneumoniae	10	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 1 (cont)	PRMA_ECOLI	1	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 2 (cont)	S.typhimurium	2	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 3 (cont)	Yersinia	3	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 4 (cont)	V.cholerae	4	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 5 (cont)	Pseudo.putida	5	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 6 (cont)	P.aeruginosa	6	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 7 (cont)	Strep. fradiae	7	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 8 (cont)	B.subtilis	8	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 9 (cont)	Lacto.lactis	9	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 10 (cont)	Strep.pneumoniae	10	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 1 (cont)	PRMA_ECOLI	1	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 2 (cont)	S.typhimurium	2	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 3 (cont)	Yersinia	3	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 4 (cont)	V.cholerae	4	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 5 (cont)	Pseudo.putida	5	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 6 (cont)	P.aeruginosa	6	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 7 (cont)	Strep. fradiae	7	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 8 (cont)	B.subtilis	8	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 9 (cont)	Lacto.lactis	9	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH
SEQ ID NO: 10 (cont)	Strep.pneumoniae	10	NSFC	CPCH	CPCH	NSV	CPCH	NSV	CPCH

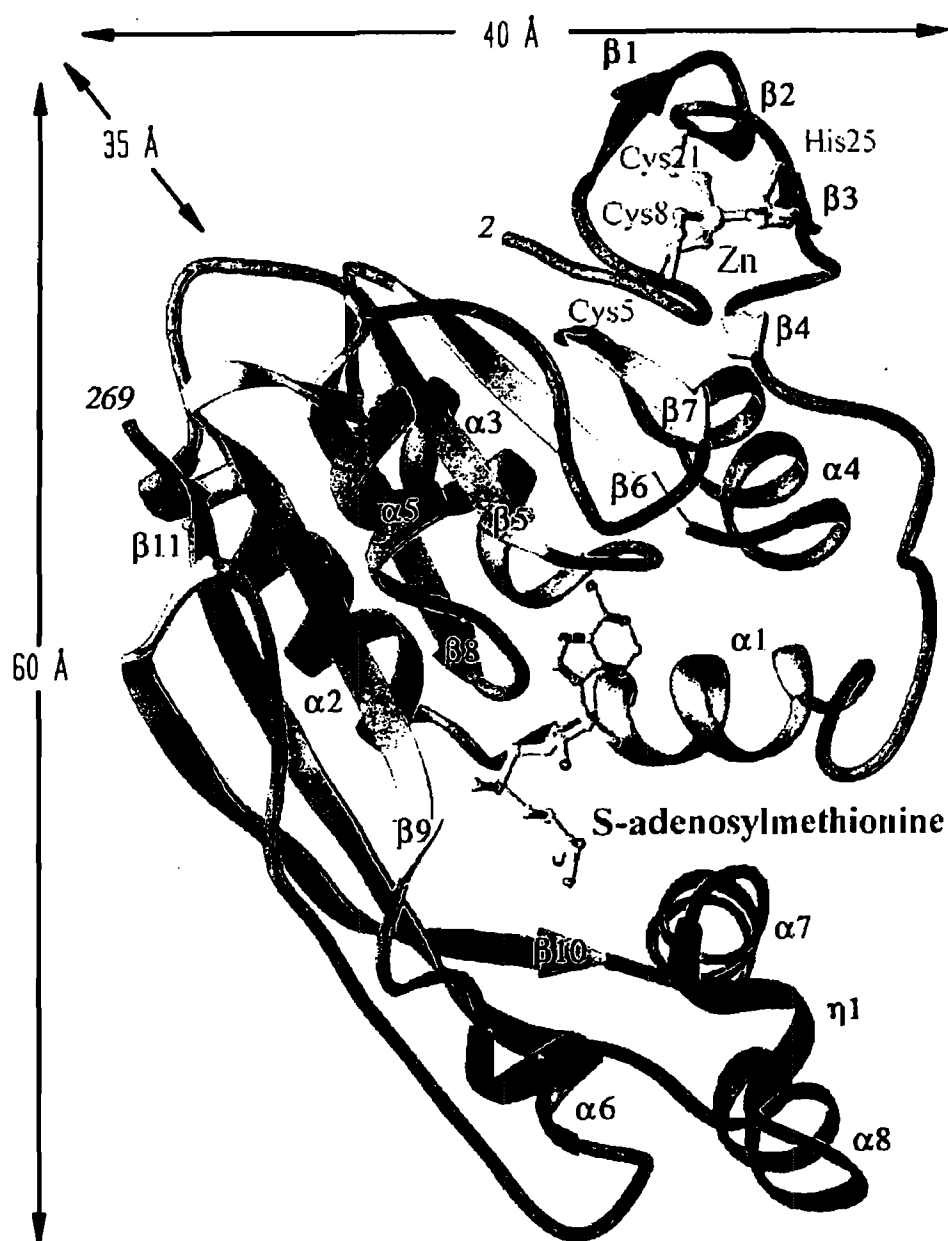
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FIG 1A (Cont)

	PRMA_ECOLI	α6 190	α7 210	α7 220	α7 230	α7 240
SEQ ID NO: 1 (cont)	PRMA_ECOLI	PRHMELEKGLI.YNEVHLHAP...HAEQLEGETLQQEPCYPMRIRGDEEVA.LLQMTTTPFARRAKPEV				
SEQ ID NO: 2 (cont)	S.typhimurium	PHHLMELKGLI.YDEVRLHAP...YTEQLDGETLQQSTRLAYHMQUTAEAAVA.LLQMTTTPFARRARPDV				
SEQ ID NO: 3 (cont)	Yersinia	PRHMYQLKALI.YAQVQLHDE...TEERLDGFEELIRRETUAYDMKUTGEGCFH.LLQMTTTPFARRASVDT				
SEQ ID NO: 4 (cont)	V.cholerae	ARHLYDFKGGI.YDQVRLHEE...QPETLSGFELVECKLHYPMAIUNGSEAD.LLQMTTTPFARRASEDP				
SEQ ID NO: 5 (cont)	Pseudo-putida	SGHIMELREVI.YDEVPPYADDKHLALVPEGMAHAHSETEPRILSLAAPKBRADLLAMTPHGMRAISAEK				
SEQ ID NO: 6 (cont)	P.aeruginosa	SAHLLLELRQRI.YDDVRDYADENHLASLPAQLRLRNHETUEFRILALDSYDARENLLAMTPHGMRVNPER				
SEQ ID NO: 7 (cont)	Strep.fradiiae	QDHIAELVDAILGLLRVRDHKEGRDAPGLAPHFEAVGCTERLRTTLRLD.HDALLGRVVAAMGCPSSMHCTDPE				
SEQ ID NO: 8 (cont)	B.subtilis	SDYLIELPQPIITDSPRRTYSNTAAVERPTANAASHSPVRLRYVNTLDQCAIHHLLKMTPLAMSAPEKDR				
SEQ ID NO: 9 (cont)	Lacto.lactis	RNYTHELEREVMQLP...VDYDNQAVIERPEKEEPPKNTQTIDYTFEIPENLRQDFLLMSPLKMSVSEER				
SEQ ID NO: 10 (cont)	Strep.pneumoniae	ENH[KKEIRQRI]VQDQLTNKEYSNODIK[HFEQEHFTI]LS[ST]ASL[NT]ITAEQLQALLSMTPL[LEH]VQDSK				
		α6 250	α7 260	α7 270	α7 280	α7 290
	PRMA_ECOLI	WOT[L]AKAVPDCQTFN[H]LWORSY.....				
	S.typhimurium	WEC[L]AFSAGLSCTDFM[H]LWQRNR.....				
	Yersinia	CQ[L]AASPSPSCETDFV[SL]HRRKTDNPQNDI				
	V.cholerae	KHRV[SQ]SDTFEADFMURVYRK.....				
	Pseudo-putida	RA.RVI.DQPEPFEVTVMRYDYEVQRD.....				
	P.aeruginosa	RA.RIL..AEPMEVSAVRIDWLQRD.....				
	Strep.fradiiae	LAR[IA]ELPGIHEVTLSTFTVCPLP.....				
	B.subtilis	VSL[K]EMKSADITVDVDLIGMK.....				
	Lacto.lactis	KAFANENPPETARIHVQLIGIK.....				
	Strep.pneumoniae	IDW[SN]...LTEIT[IEAE]LVCKAP.....				

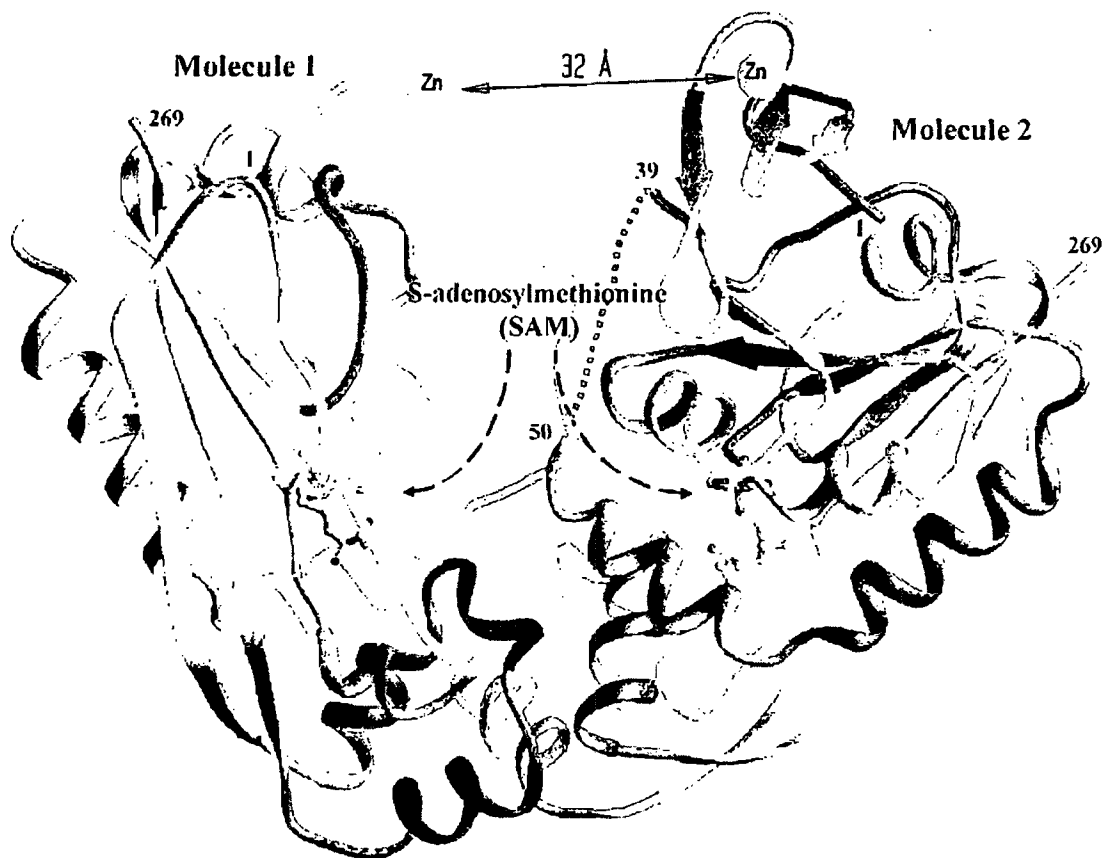
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FIG. 1B



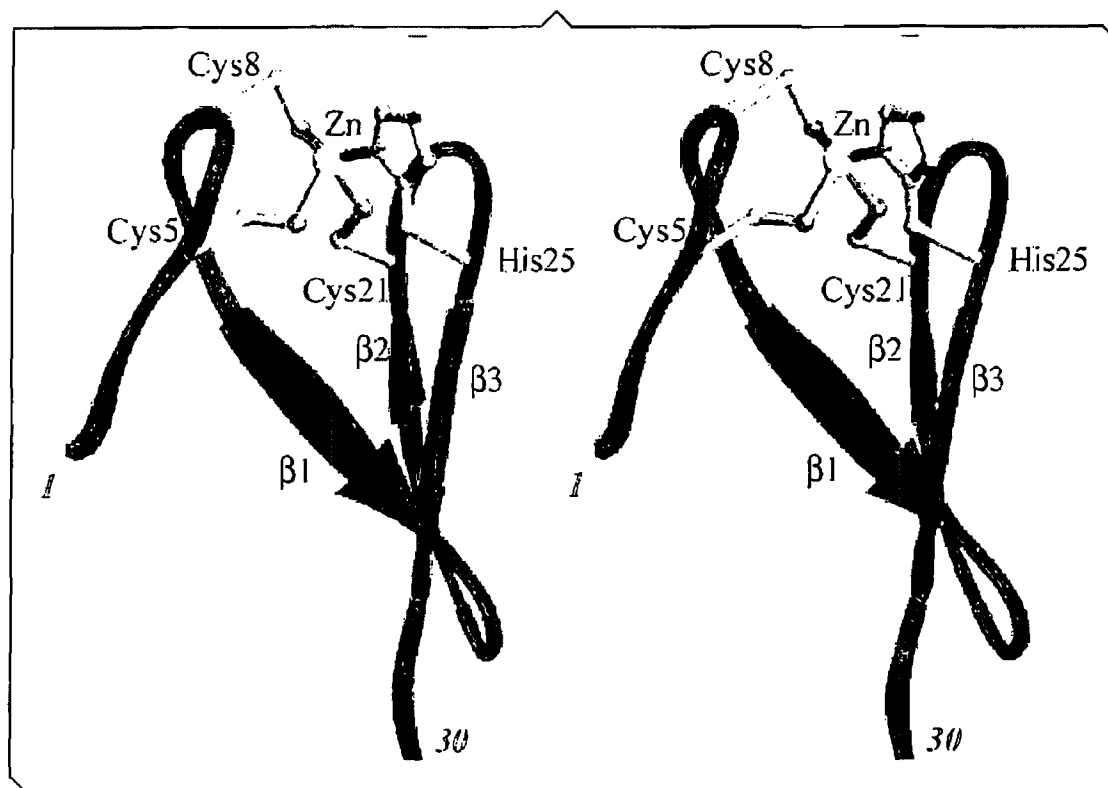
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FIG 2A



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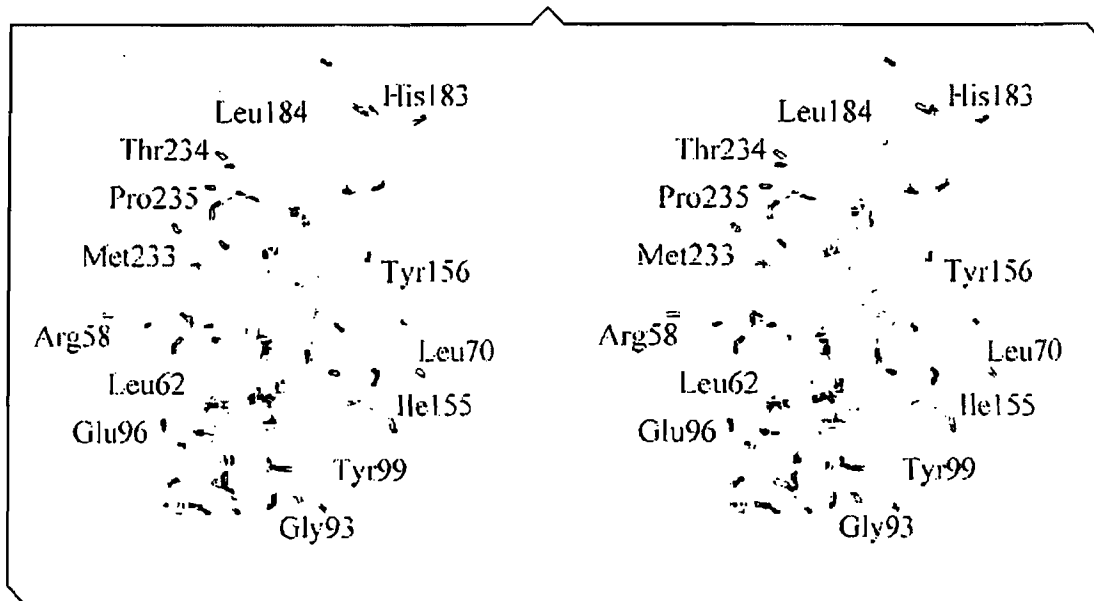
FIG 2B



# REPLACEMENT SHEET

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FIG 2C

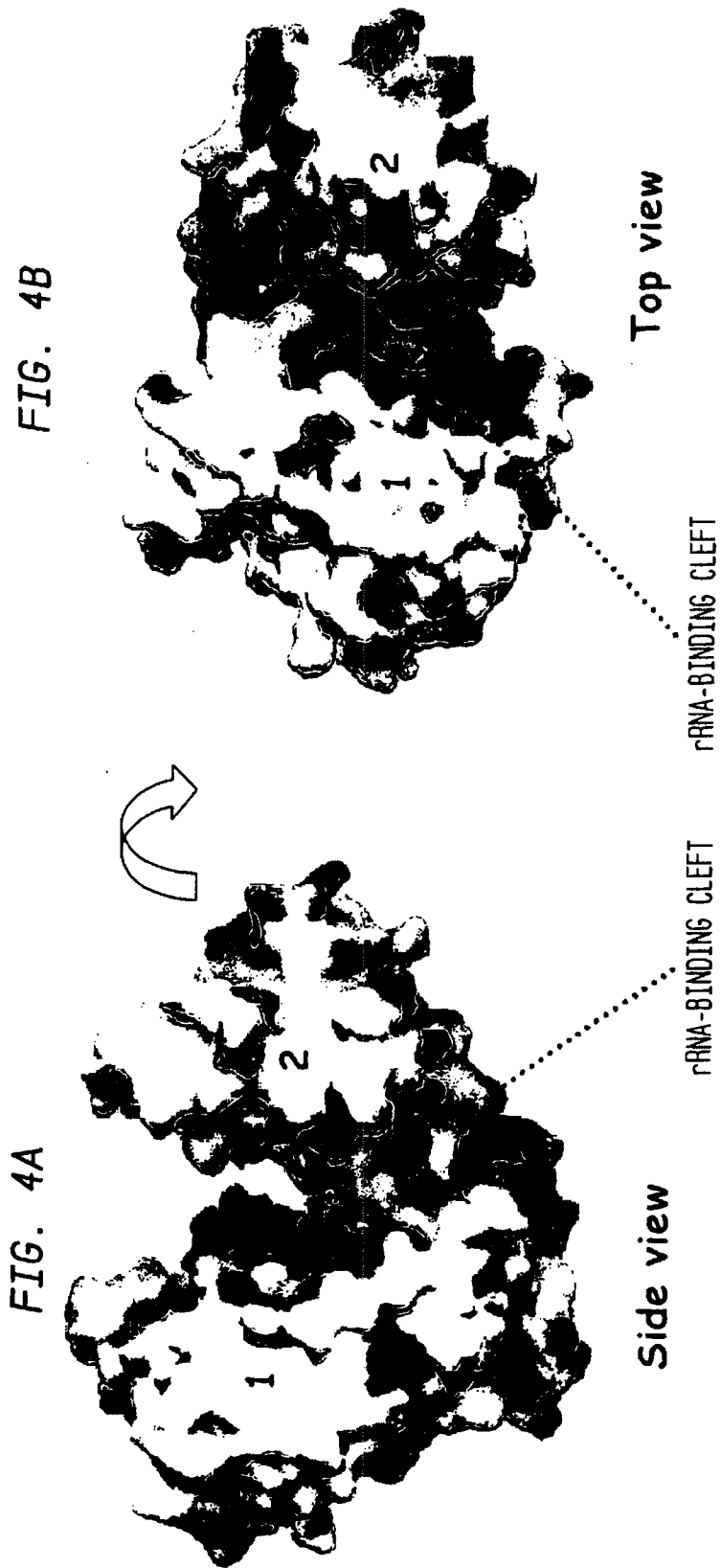


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FIG 3



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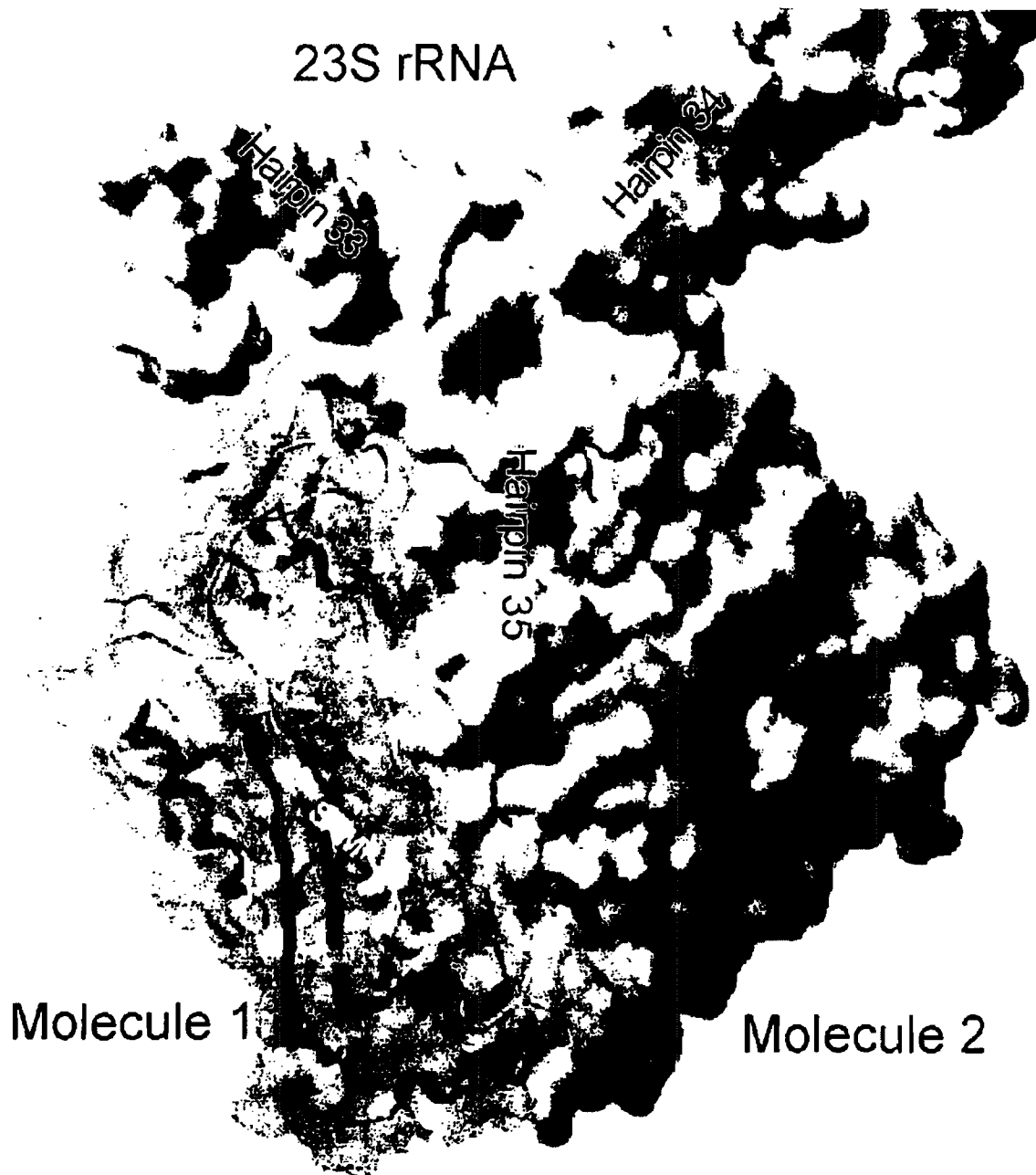




REPLACEMENT SHEET

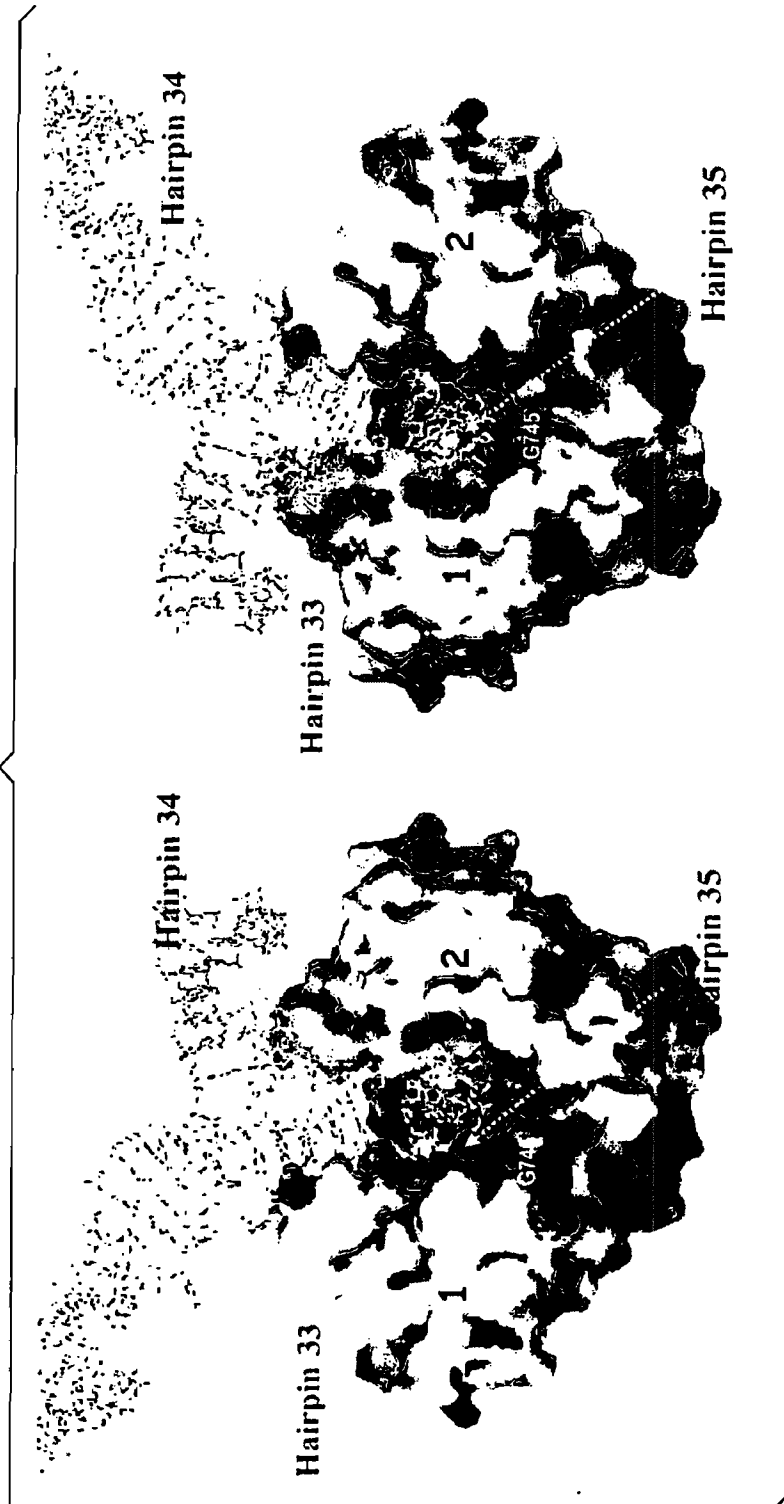
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FIG 5A



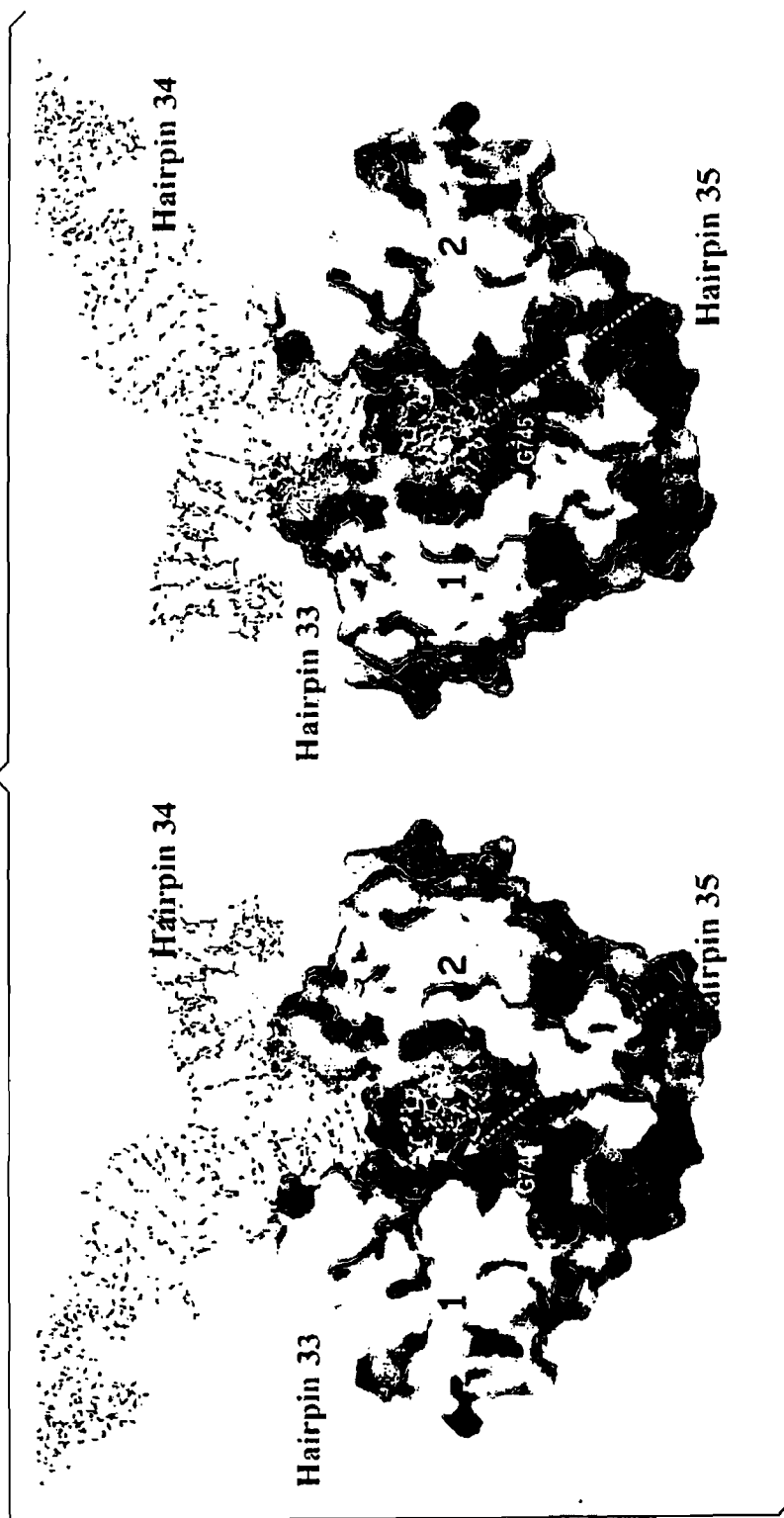
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FIG 5B



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FIG 5C



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FIG 5D

